

FIG. 1

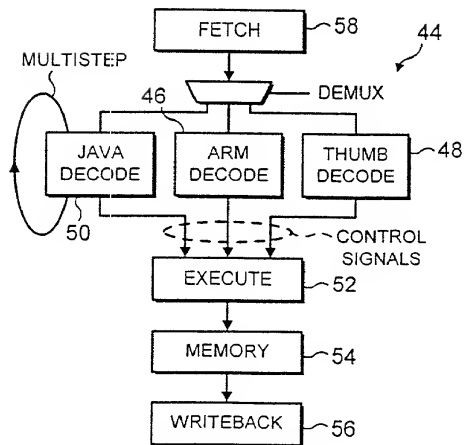


FIG. 2

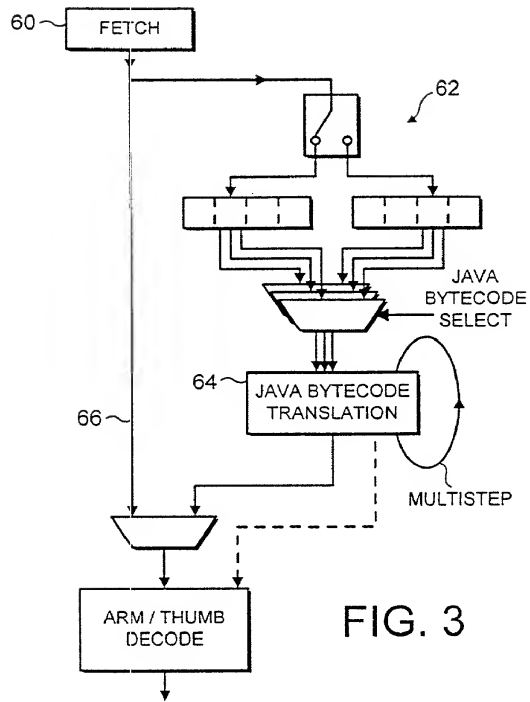


FIG. 3

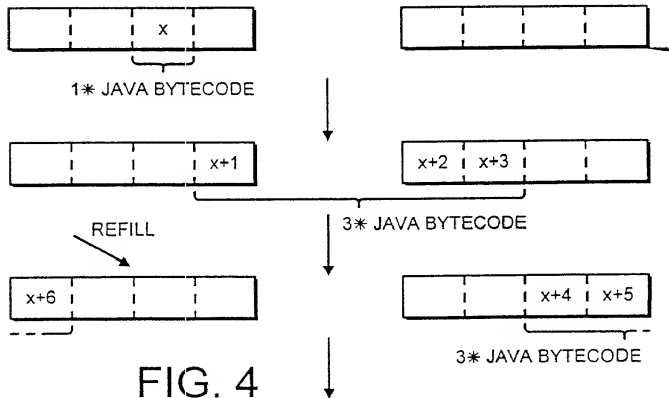


FIG. 4

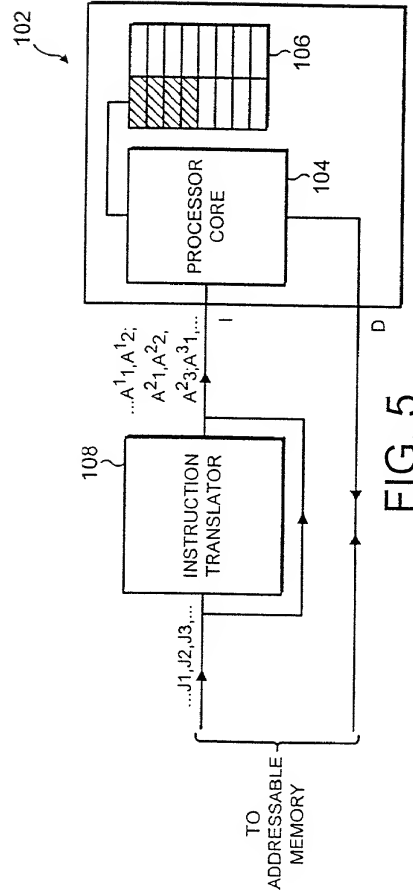


FIG. 5

JAVA INSTRUCTION	iadd (RF=2, RF>0)	iadd (RF=2, RF>1)	iadd (SA=-1)
ARM INSTRUCTION(S)	LDR R0,[RStack,#4] (POP)	LDR R3[RStack,#4] (POP)	ADD R3, R3, R0
STATE	00000	00100	00100
R0	E	SOA TOS	SOA TOS
R1	E	E	E
R2	E	E	E
R3	E	E	(SOA+SOB) TOS

JAVA INSTRUCTION	lload ¹ (RF=0, RE>2)	lload ² (RF=0, RE>2)	lload ² (RF=0, RE=2)
ARM INSTRUCTIONS	LDR R1,[Rvars,#4] LDR R0,[Rvars,#0]	STR R3[RStack],#-4 (PUSH)	LDR R3,[Rvars,#4] LDR R2,[Rvars,#0]
STATE	00000	00100	01000
R0	E	SOC TOS-1	SOC TOS-1
R1	E	SOD TOS	SOD TOS-2
R2	E	E	SOE TOS-1
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	SOF TOS

FIG. 6

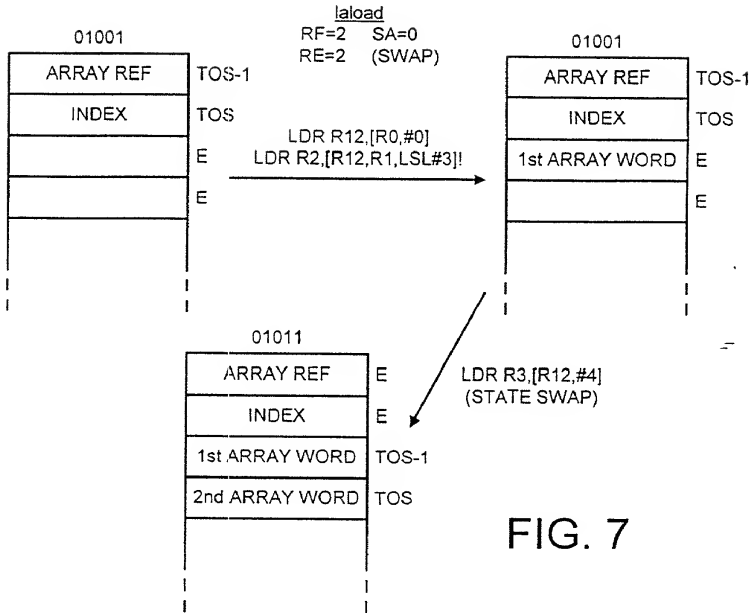


FIG. 7

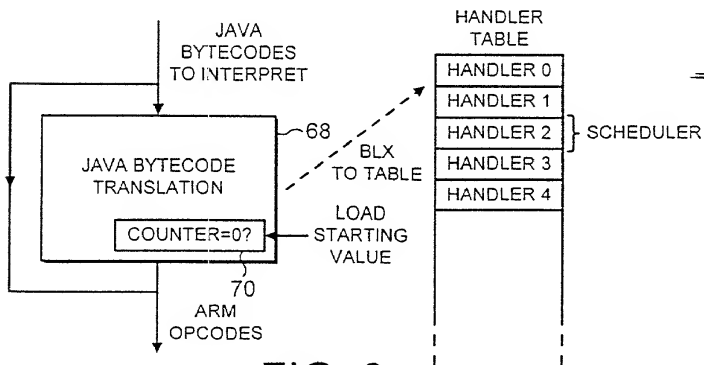


FIG. 9

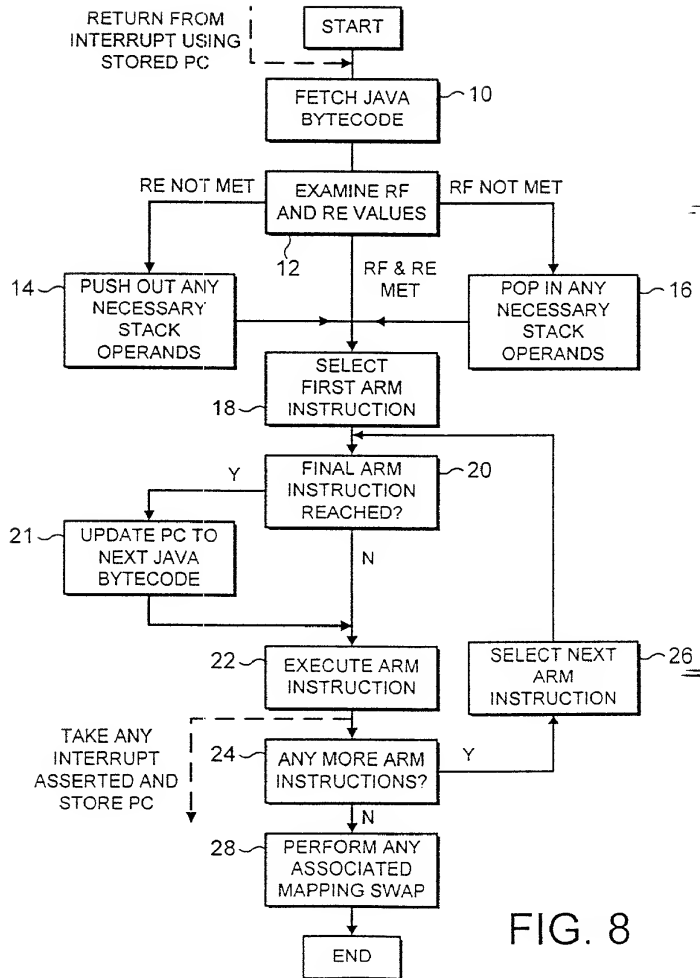
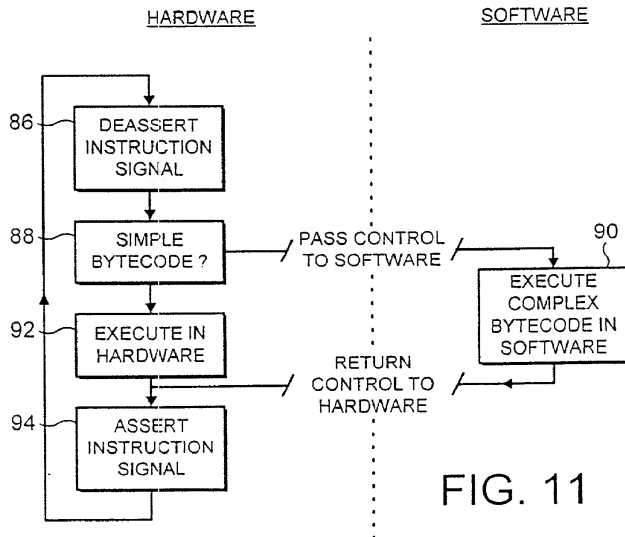
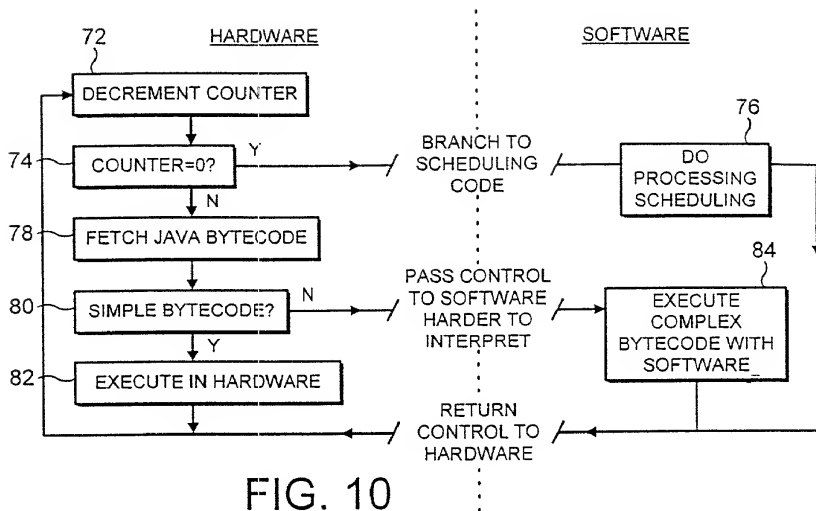


FIG. 8



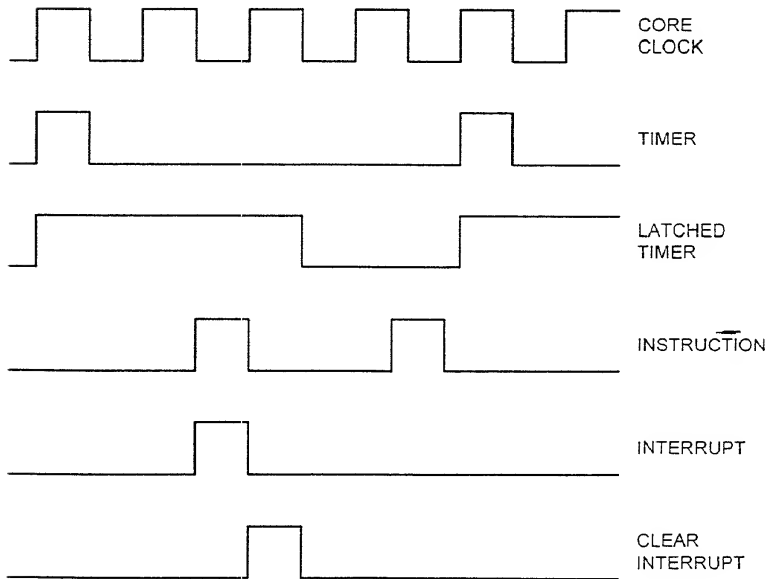
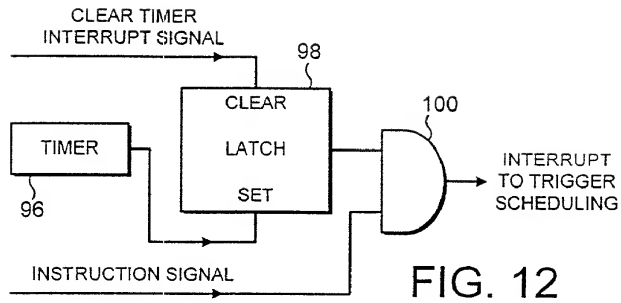


FIG. 13

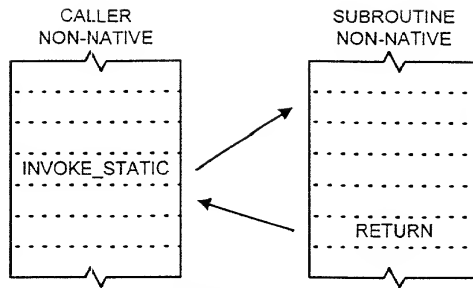


FIG. 14
PRIOR ART

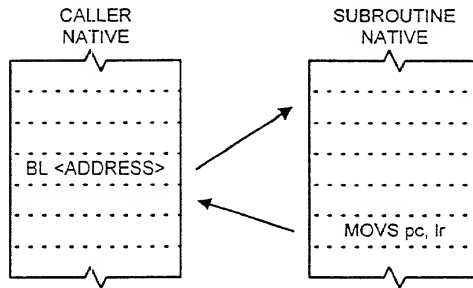


FIG. 15
PRIOR ART

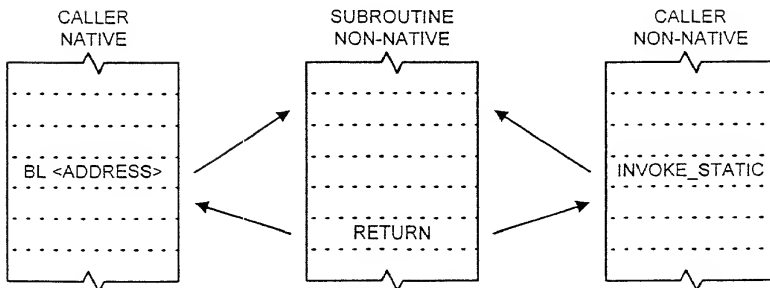


FIG. 16
PRIOR ART

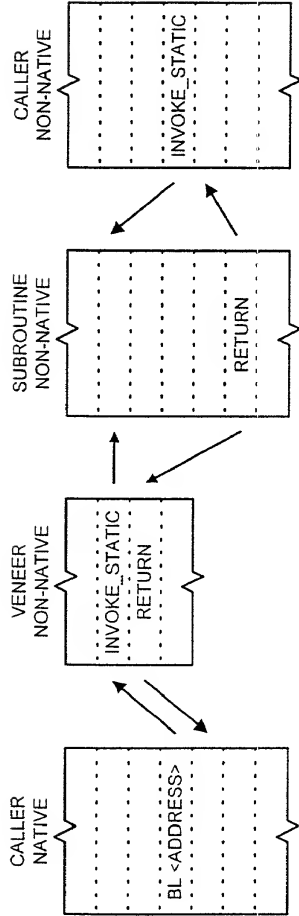


FIG. 17
PRIOR ART

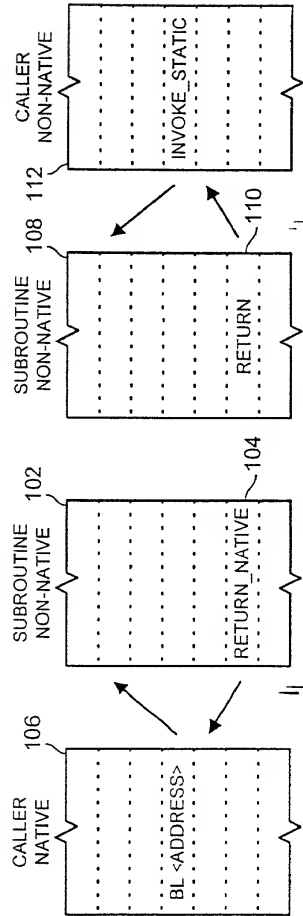


FIG. 18

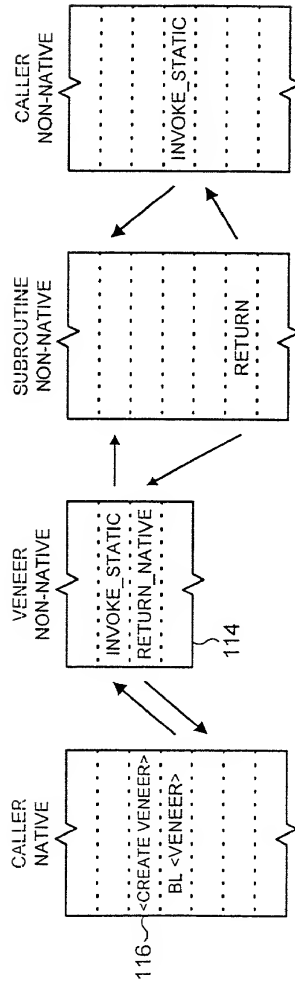
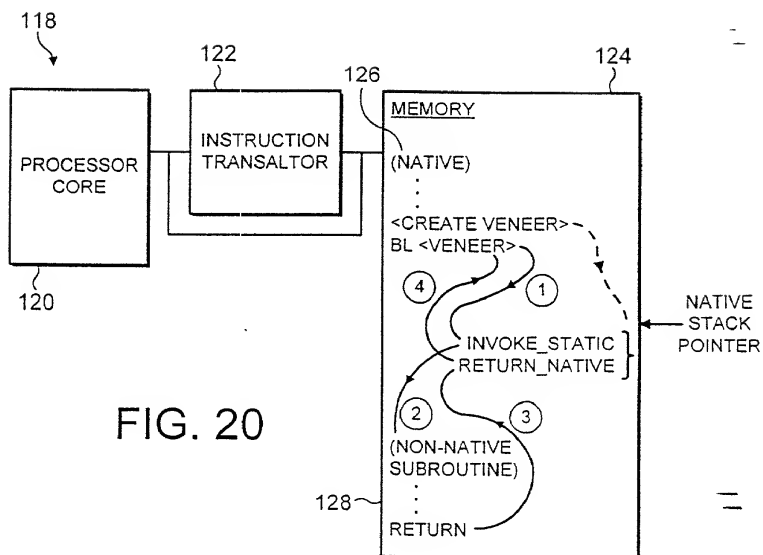


FIG. 19



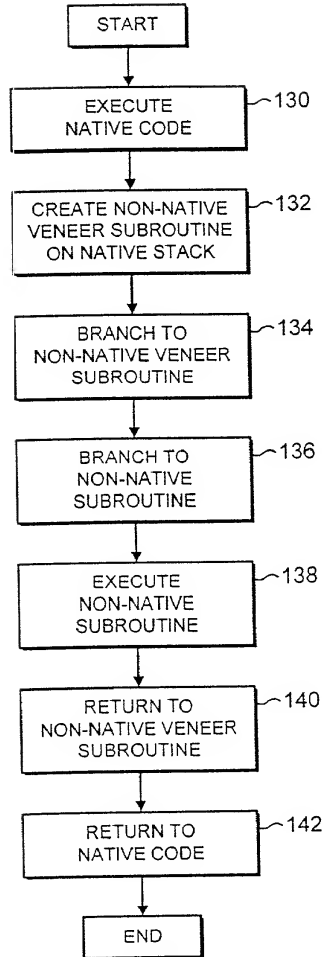


FIG. 21